

STATUS OF CLAIMS

Claims 21-32 (canceled)

33. (previously presented): A thermocouple comprising a sensing tip in electrical connection with a mineral insulated thermocouple cable characterized in that additional external shielding is provided by a low temperature sintering refractory material including particulate borosilicate and boric acid power, in which the tip is formed from a thermocouple cable with a negative metal tube housing a positive wire embedded in the low temperature sintering material.

Claims 34-40 (canceled)

41. (previously presented): A thermocouple comprising a sensing tip in electrical connection with a mineral insulated thermocouple cable characterized in that additional external shielding is provided by a low temperature sintering refractory material including particulate borosilicate and boric acid power, the shielding is in the form of a sheath having inner and outer metal tubes constricted over a filler of low temperature sintering refractory material, in which the tip is formed by providing a hot junction from the wires of the thermocouple cable and supported by the sheath with both tubes and the refractory material formed to cap the hot junction.

Claim 42. (canceled)